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Patent Number: JP10125300
Publication date: 1998-05-15
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Requested Patent: ☐ JP10125300

Application Number: JP19960299572 19961024

Priority Number(s):

IPC Classification: H01M2/16 ; D01F6/04 ; D04H3/00 ; D06M14/14 ; H01M10/28

EC Classification:

EC Classification:

Equivalents:

Abstract

PROBLEM TO BE SOLVED: To suppress a self-discharge by using a separator obtained by graft- polymerizing acrylic acid to fibers made by a melt-blow method with fused and softened polyolefin in an air current.

SOLUTION: A nonwoven fabric is produced with a polypropylene resin by so-called melt-blow method. A nonwoven fabric made of polyolefin fibers formed by the melt spinning method is thermally melted and attached onto the surface of the melt-blown nonwoven fabric to supplement the strength of this nonwoven fabric to obtain a composite-structure nonwoven fabric. This composite-structure nonwoven fabric is dipped in a mixed liquid constituted of water of 80wt.% serving as a solvent, benzophenone of 0.3wt.% serving as a polymerization initiator, and acrylic acid of 19.7wt.% serving as a vinyl monomer, ultraviolet rays are applied in the nitrogen atmosphere to graft- polymerize acrylic acid, then it is washed with water and dried to form the separator.

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